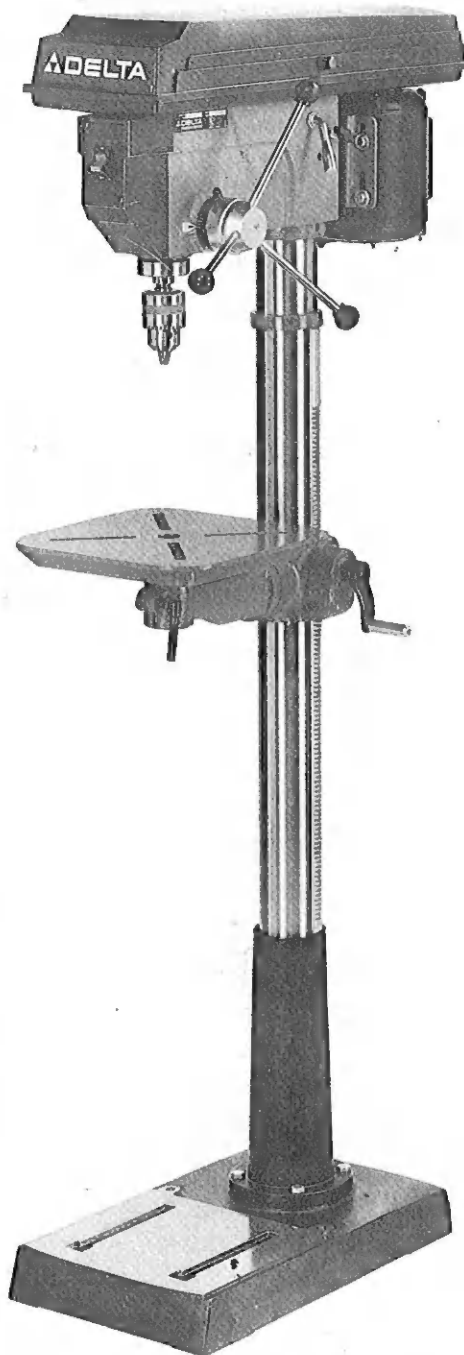


14" Bench Drill Press

The Serial No. and Model No. plate is attached to the right side of the drill press head. Locate this plate and record the Serial No. and Model No. in your manual for future reference.

SERIAL NO. R 9150

MODEL NO. 14-040



16 1/2" Floor Drill Press

Part No. 1312040

Dated 2-1-90

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SAFETY RULES

As with all machinery there are certain hazards involved with operation and use of the machine. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the machine until you have written Delta Machinery and we have advised you.

DELTA INTERNATIONAL MACHINERY CORP.
MANAGER OF TECHNICAL SERVICES
246 ALPHA DRIVE
PITTSBURGH, PENNSYLVANIA 15238

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL.** Learn the tool's application and limitations as well as the specific hazards peculiar to it.
- 2. KEEP GUARDS IN PLACE** and in working order.
- 3. GROUND ALL TOOLS.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.
- 4. REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "on."
- 5. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- 6. DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.
- 7. KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
- 8. MAKE WORKSHOP CHILDPROOF** - with padlocks, master switches, or by removing starter keys.
- 9. DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.
- 10. USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
- 11. WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Nonslip foot wear is recommended. Wear protective hair covering to contain long hair.
- 12. ALWAYS WEAR EYE PROTECTION.** Refer to ANSI Z87.1 Standard for appropriate recommendations. Also use face or dust mask if cutting operation is dusty.
- 13. SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- 14. DON'T OVERREACH.** Keep proper footing and balance at all times.

- 15. MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters, etc.
- 17. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause hazards.
- 18. AVOID ACCIDENTAL STARTING.** Make sure switch is in "OFF" position before plugging in power cord.
- 19. NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
- 20. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function - check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 21. DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 22. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
- 23. DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drug, alcohol or any medication.
- 24. MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while motor is being mounted, connected or reconnected.
- 25. WARNING:** The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

ADDITIONAL SAFETY RULES FOR DRILL PRESSES

- 1. BE SURE** drill bit or cutting tool is securely locked in the chuck.
- 2. BE SURE** chuck key is removed from the chuck before turning on power.
- 3. ADJUST** the table or depth stop to avoid drilling into the table.
- 4. SHUT OFF** the power, remove the drill bit or cutting tool, and clean the table before leaving the machine.
- 5. CAUTION:** When practical, use clamps or a vise to secure workpiece to keep the workpiece from rotating with the drill bit or cutting tool.
- 6. WARNING:** For Your Own Safety — Don't wear gloves when operating a drill press.

UNPACKING AND CLEANING

Carefully unpack the drill press and all loose items from the carton. Remove the protective coating from the machined surfaces of the drill press. This coating may be removed with a soft cloth moistened with kerosene. Do not use acetone, gasoline, or lacquer thinner for this purpose.

ASSEMBLING THE DRILL PRESS

14" BENCH DRILL PRESS ONLY

- Assemble column (A) to the base (B) using the four screws (C) as shown in Fig. 2. Loosen set screw (D) and remove ring (E) and raising rack (F).

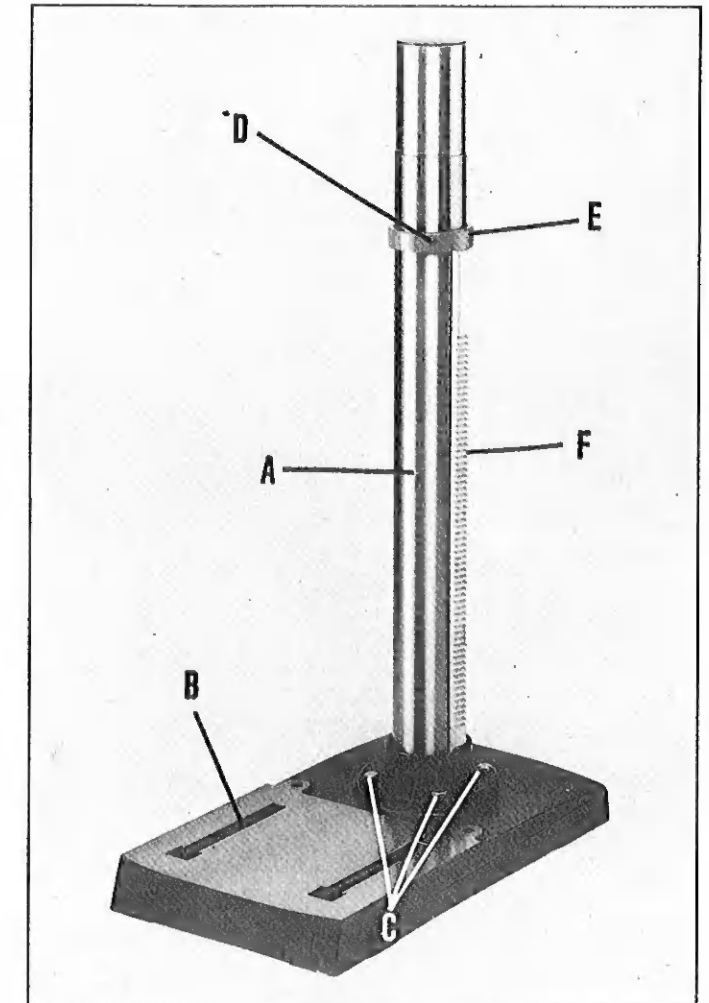


Fig 2

- Assemble worm gear (G) to hole (H) in table bracket, as shown in Fig. 3.

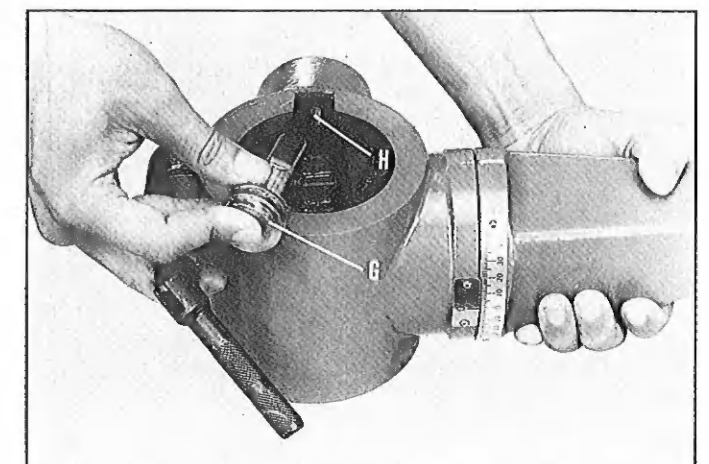


Fig 3

3. Place rack (F) in position in table bracket, as shown in Fig. 4 and slide rack and table bracket onto column (A).

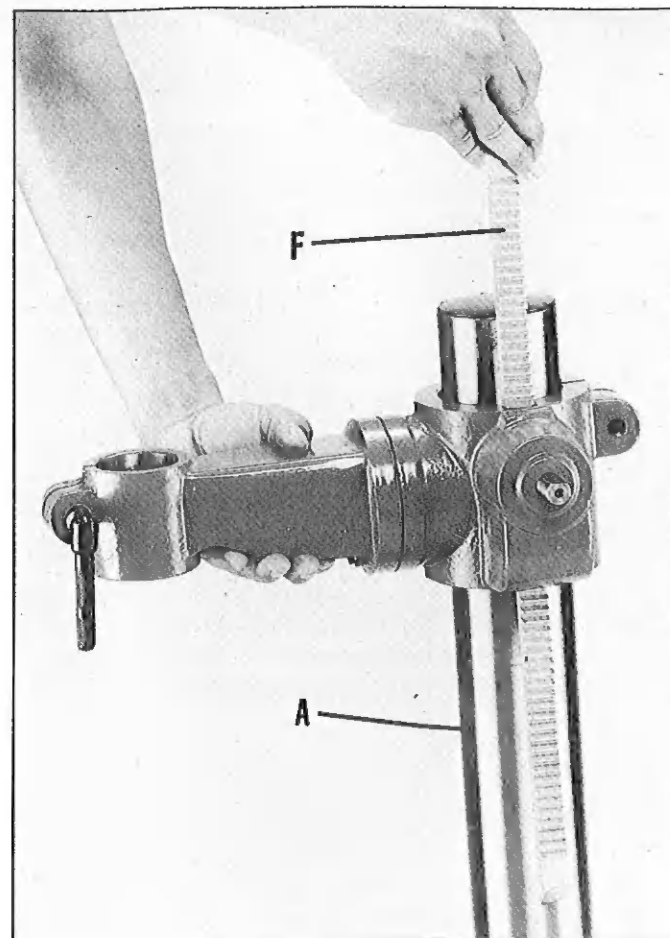


Fig 4

4. Position table bracket all the way down on the column. Reassemble ring (E) and tighten set screw (D), Fig. 5.

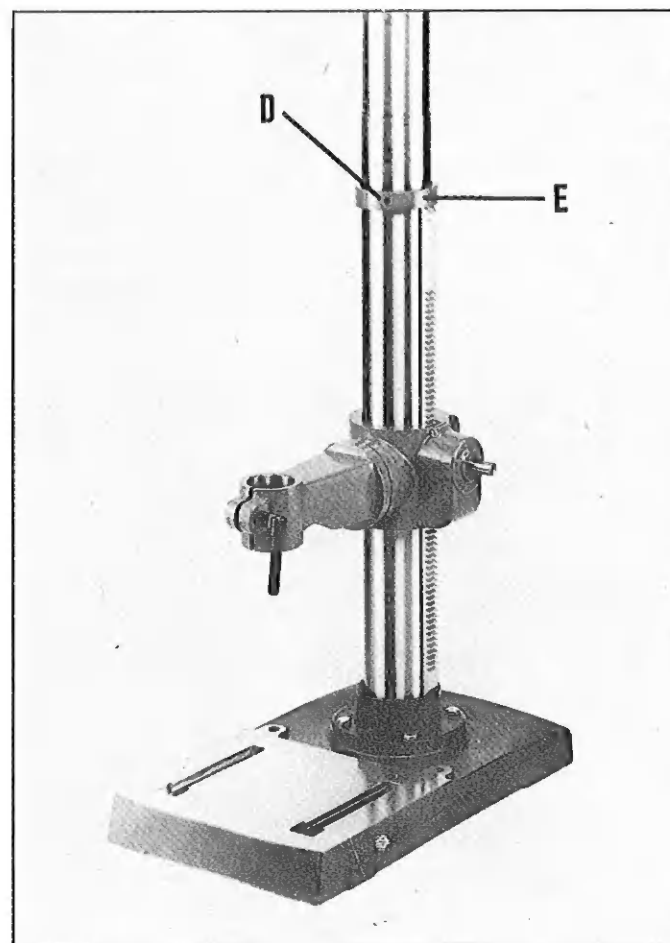


Fig 5

16½" DRILL PRESS ONLY

5. Assemble column (A) to the base (B) using the four screws (C), as shown in Fig. 6. Note: Table bracket (D) is shipped assembled to the column, as shown.

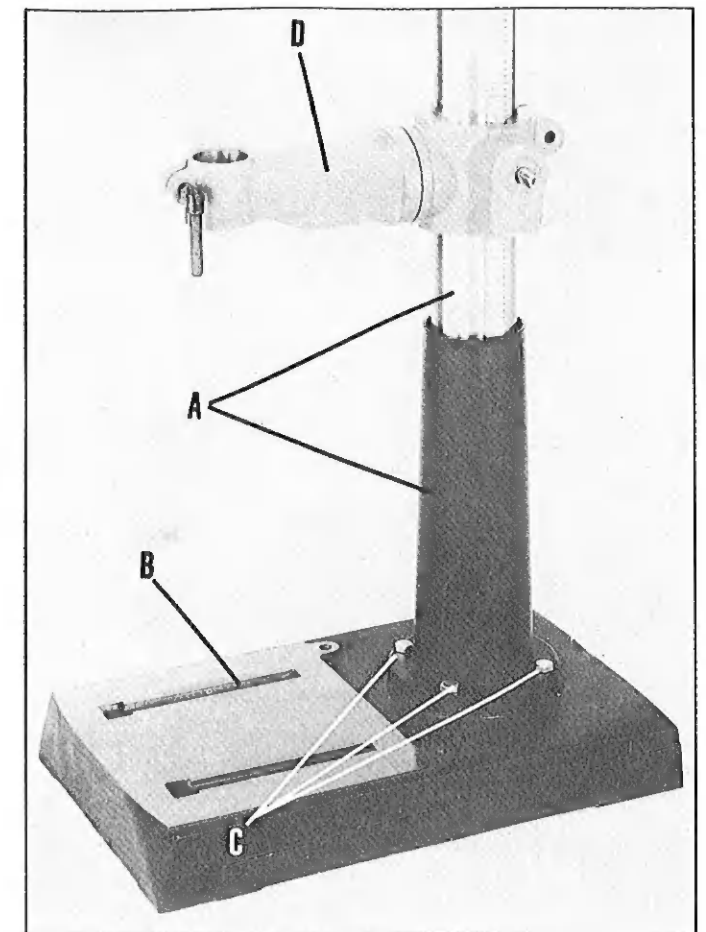


Fig 6

14" AND 16½" DRILL PRESSES

6. Assemble table (G) to table bracket, as shown in Fig. 7, and lock in place using the table rotating lock screw (H).

7. Assemble table raising handle (J), and table bracket lock screw (K), as shown in Fig. 7.

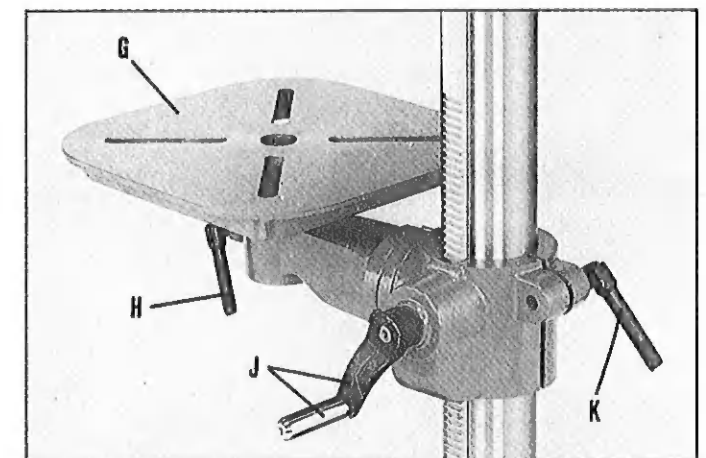


Fig 7

8. Place the drill press head (L) onto the column as far as it will go. Align the head and table to the drill press base and tighten the two head locking screws (M), as shown in Fig. 8.

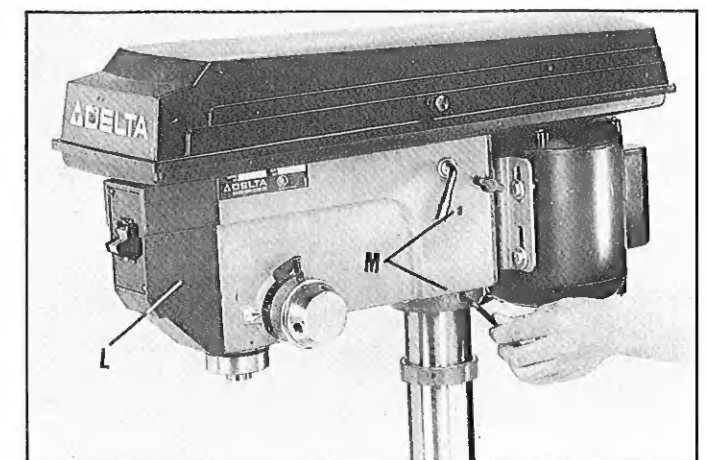


Fig 8

9. Thread the three pinion shaft handles (N) into the three holes located in the pinion shaft, as shown in Fig. 9.

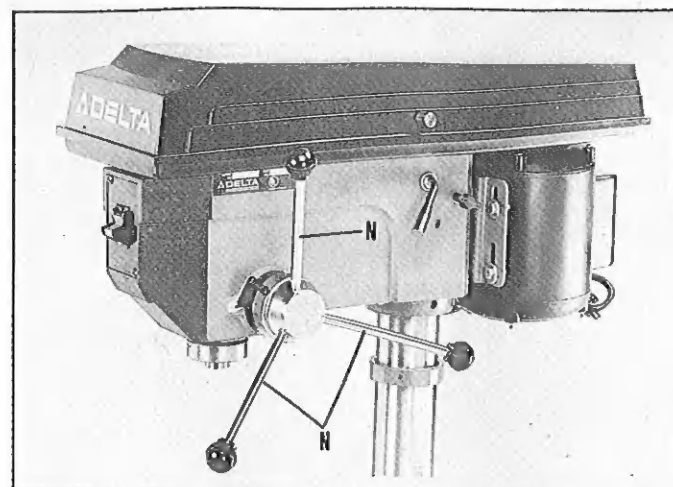


Fig 9

14" BENCH DRILL PRESS ONLY

10. IMPORTANT: Make certain the bottom of spindle (O) Fig. 10 and the tapered hole in chuck (P) are clean and free of any grease, lacquer or rust preventive coatings. NOTE: Household oven cleaner can effectively remove any substance from the spindle and chuck, however, carefully follow the manufacturer's safety rules concerning its use.

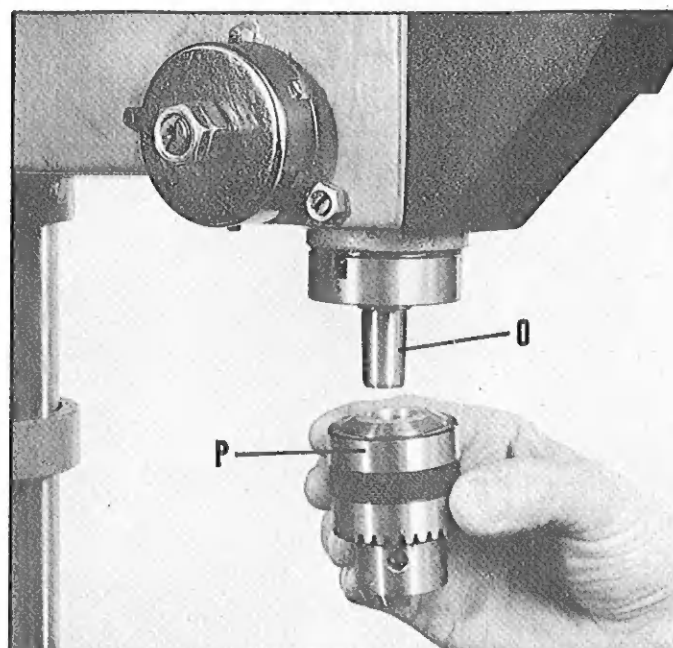


Fig 10

11. Open the chuck jaws as wide as possible by turning chuck sleeve (R) Fig. 11.

12. Holding chuck (P) Fig. 11, carefully drive the chuck onto the spindle (O) with a block of wood and conventional hammer, or a mallet as shown. This will seat the chuck (P) properly on the spindle (O). IMPORTANT: To avoid damage to the chuck, do not drive the chuck directly onto the spindle with a metal hammer.

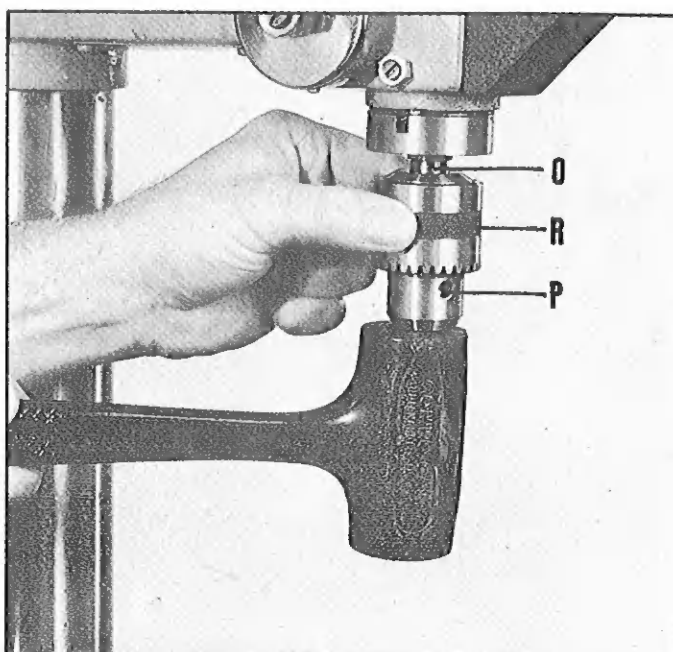


Fig 11

16½" DRILL PRESS ONLY

13. IMPORTANT: Make certain the tapered hole in the bottom of spindle (T) Fig. 12, and the taper on spindle adapter (U) are clean and free of any grease, lacquer or rust preventive coatings. NOTE: Household oven cleaner can effectively remove any substance from the spindle and spindle adapter, however, carefully follow the manufacturer's safety rules concerning its use.

14. Push spindle adapter (U) Fig. 12, up into spindle (T) making certain the tang (V) engages and locks with the mating slot inside spindle (T).

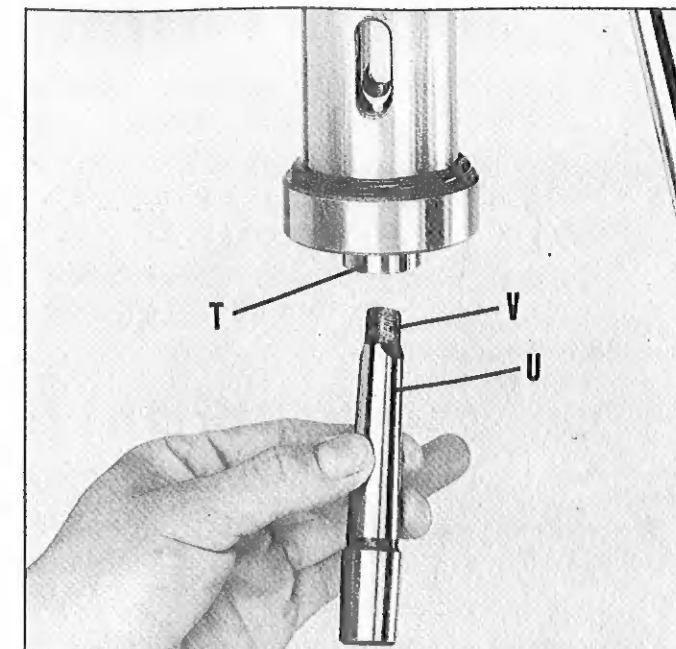


Fig 12

15. Make certain the bottom of spindle adapter (U) Fig. 13, and tapered hole in chuck (W) are cleaned as noted in Step 13, and push chuck (W) up onto the spindle adapter (U) as far as it will go.

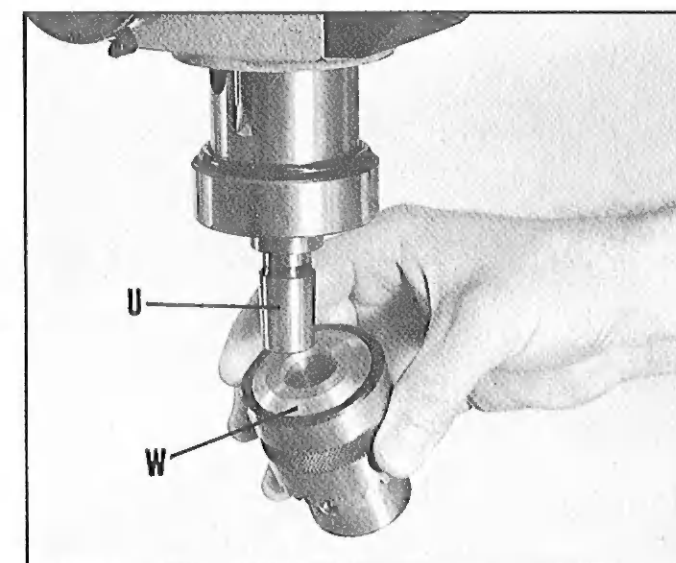


Fig 13

16. Open the chuck jaws as wide as possible by turning chuck sleeve (X) Fig. 14.

17. Holding the chuck (W) Fig. 14, carefully drive the chuck onto spindle adapter with a block of wood and conventional hammer, or a mallet as shown. This will seat the chuck (W) properly on the spindle adapter (U). IMPORTANT: To avoid damage to the chuck, do not drive the chuck directly onto the spindle adapter with a metal hammer.

14" AND 16½" DRILL PRESSES

18. Your drill press is shipped with the belt installed, however the belt must be properly tensioned before use by following the instructions under CHANGING SPINDLE SPEEDS AND ADJUSTING BELT TENSION later on in this manual.

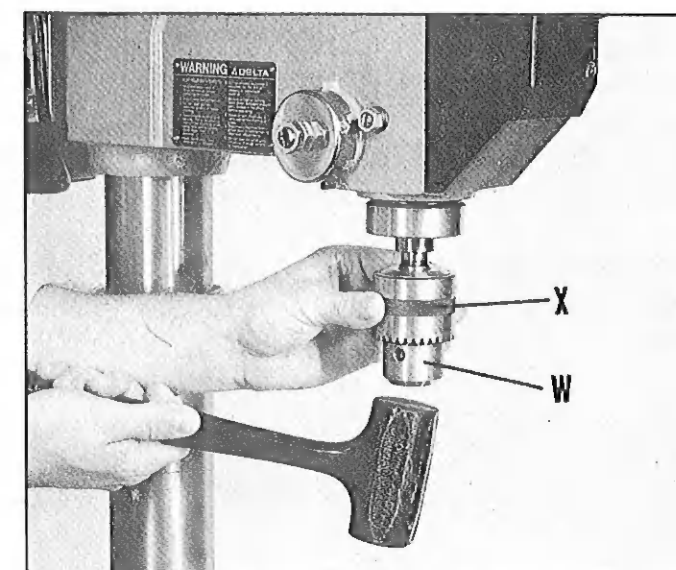


Fig 14

FASTENING DRILL PRESS BASE TO BENCH OR FLOOR

IF DURING OPERATION THERE IS ANY TENDENCY FOR THE DRILL PRESS TO TIP OVER, SLIDE OR WALK ON THE SUPPORTING SURFACE, THE DRILL PRESS BASE MUST BE SECURED TO THE SUPPORTING SURFACE WITH FASTENERS THROUGH THE TWO HOLES LOCATED IN THE DRILL PRESS BASE.

CONNECTING DRILL PRESS TO POWER SOURCE

POWER CONNECTIONS

A separate electrical circuit should be used for your tools. The circuit should not be less than #12 wire and should be protected with a 20 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole receptacles which accept the tools plug. For distances up to 100 feet use #12 wire. For distances up to 150 feet use #10 wire. Have a certified electrician replace or repair damaged or worn cord immediately. Before, connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as stamped on motor nameplate. All line connections should make good contact. Running on low voltage will damage the motor.

GROUNDING INSTRUCTIONS (115 VOLT)

CAUTION: This tool must be grounded while in use to protect the operator from electric shock. The motor is shipped wired for 115 Volt, Single Phase and is equipped with an approved 3-conductor cord and 3-prong grounding type plug to fit the proper grounding type receptacle, as shown in Fig. 15. The green conductor in the cord is the grounding wire. **CAUTION: Never connect the green wire to a live terminal.**

An adapter, shown in Fig. 16, is available for connecting 3-prong grounding type plugs to 2-prong receptacles. THIS ADAPTER IS NOT APPLICABLE IN CANADA. The green-colored rigid ear, lug, etc., extending from the adapter is the grounding means and must be connected to a permanent ground such as to properly grounded outlet box, as shown in Fig. 16.

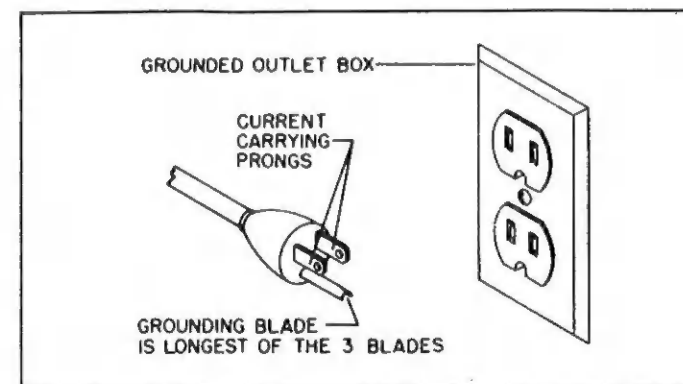


Fig 15

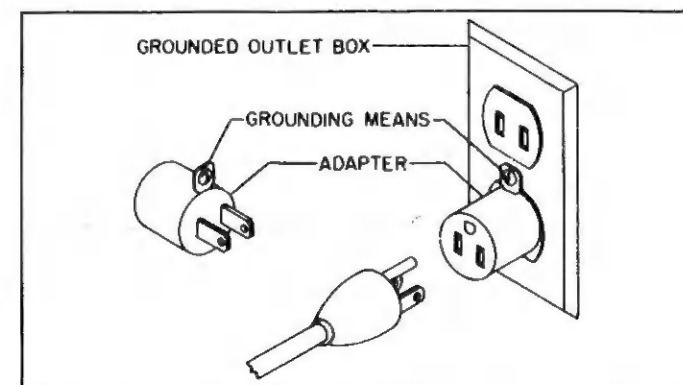


Fig 16

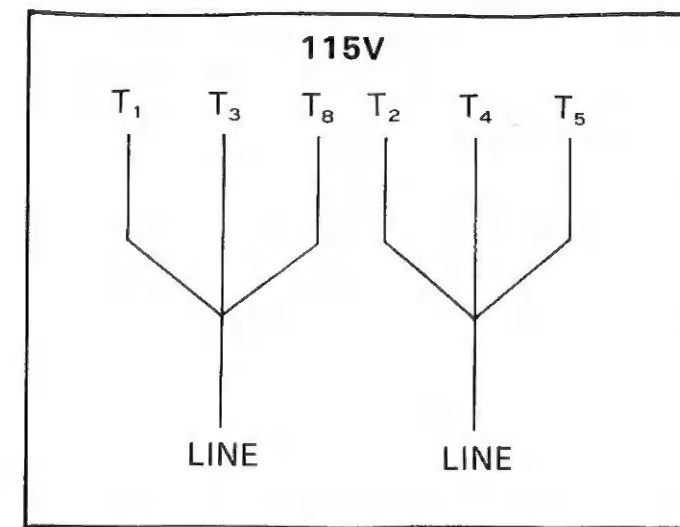


Fig 17

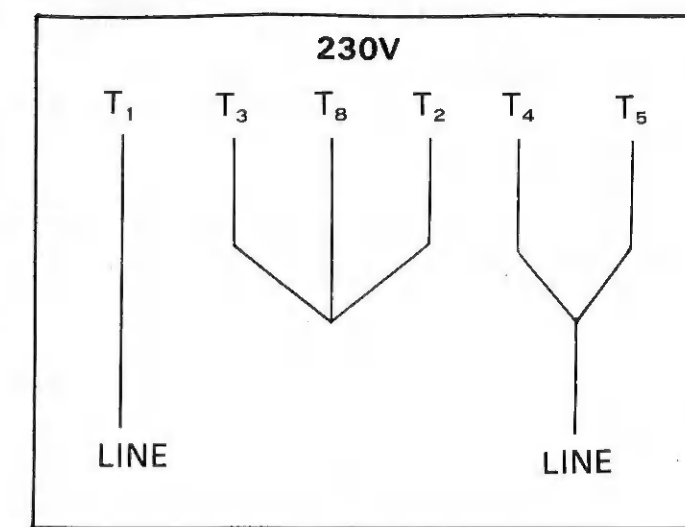


Fig 18

GROUNDING INSTRUCTIONS (230 VOLT)

If it is desired to operate this tool at 230 Volt, single phase operation, the following instructions must be followed:

1. Disconnect the machine from the power source.
2. This drill press is supplied with six motor leads that are connected for 115 Volts, as shown in Fig. 17. Reconnect these six motor leads for 230 Volt operation, as shown in Fig. 18.
3. The 115 Volt, single pole, on/off switch (A) Fig. 18A, must be replaced with a 230 Volt, double pole, on/off switch (B), available from Delta as part no. 438-01-017-0141. The two leads (C) that are connected to the single pole switch (A) must be connected to the two terminals (D) on the double pole switch (B). Remove wire nut (E) and fasten two 1/4" disconnect terminals (available from an electrical supply house) to the two wires (F). Connect the two wires (F) to the two terminals (G) on the double pole switch (B).
4. The 115 Volt power cord plug must be replaced with a 230 Volt power cord plug. The 230 Volt plug has two flat current-carrying prongs in tandem, and one round or "U" shaped longer ground prong, as shown in Fig. 19. This plug is used only with the proper mating 3-conductor grounding type receptacle, as shown in Fig. 19.

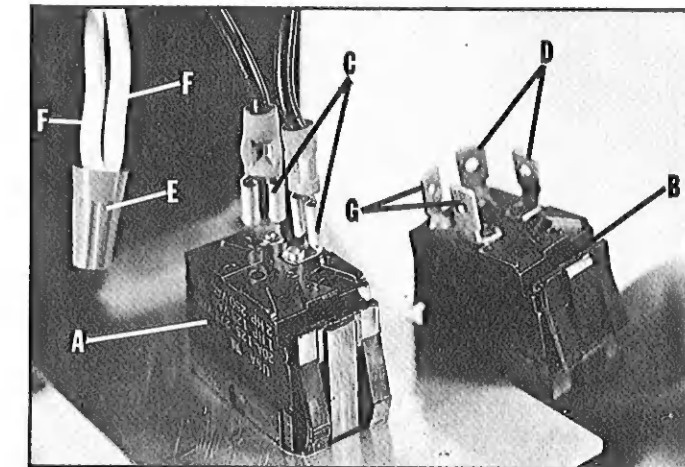


Fig 18 A

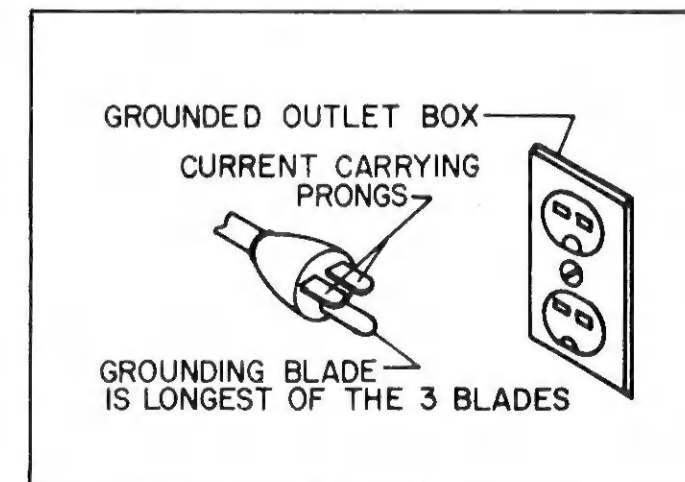


Fig 19

IMPORTANT: IN ALL CASES (115 OR 230 VOLTS) MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A REGISTERED ELECTRICIAN CHECK THE RECEPTACLE.

SPINDLE SPEEDS

Five spindle speeds of 460, 870, 1155, 1670 and 2500 RPM are available with the 14" Bench Drill Press and twelve spindle speeds of 250, 360, 410, 540, 590, 650, 1090, 1280, 1450, 1820, 2180 and 3000 RPM are available with the 16½" Drill Press. Fig. 20 illustrates which steps of the pulleys the belt must be placed to obtain the five speeds available for the 14" Bench Drill Press and Fig. 21 illustrates which steps of the pulleys the belt must be placed to obtain the twelve speeds available for the 16½" Drill Press.

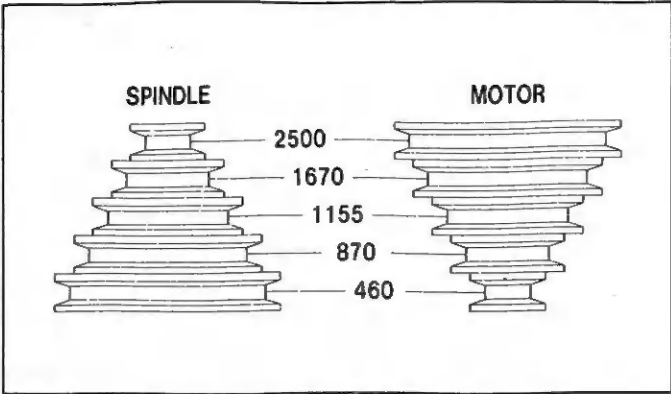


Fig 20

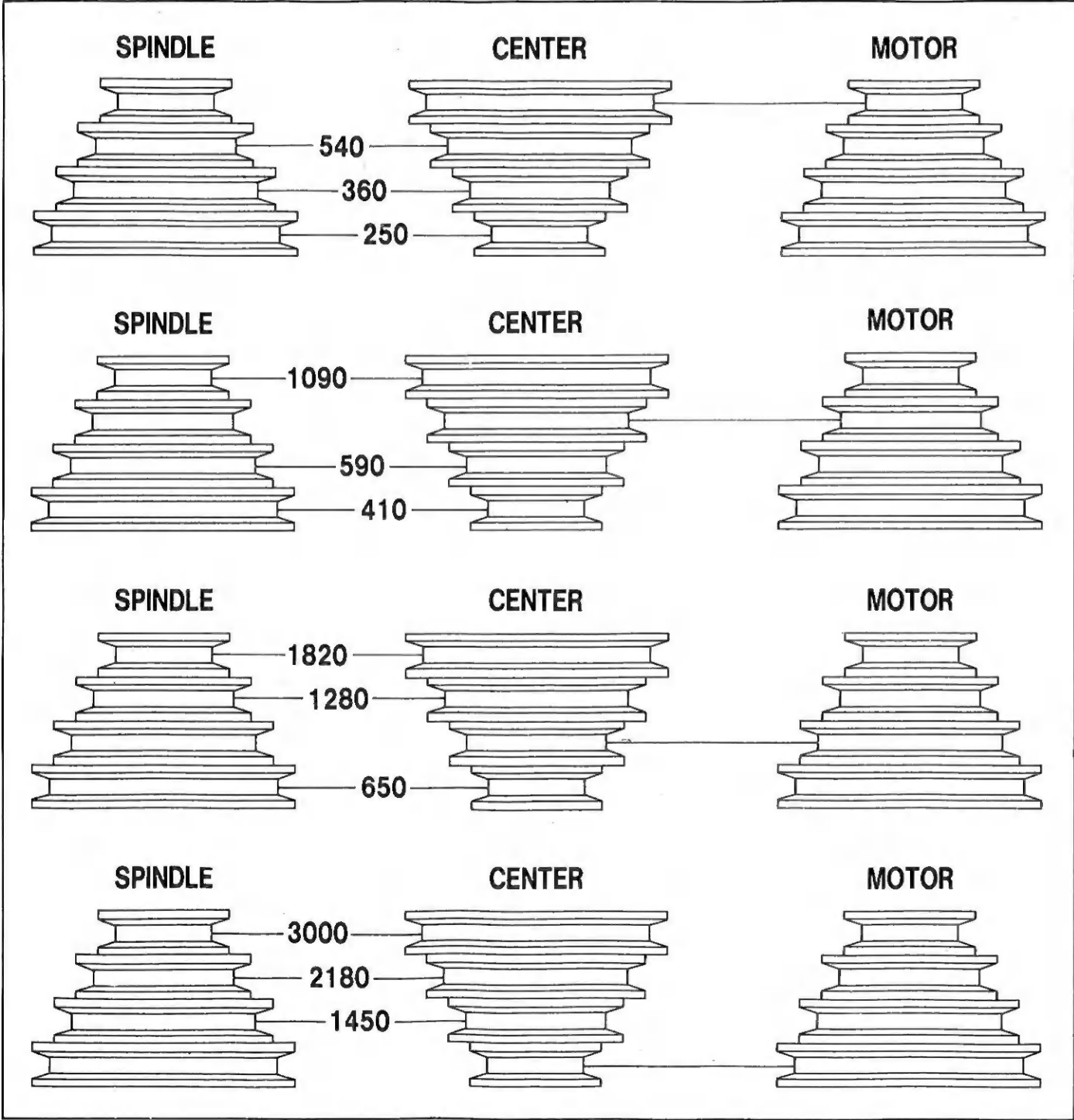


Fig 21

CHANGING SPINDLE SPEEDS AND ADJUSTING BELT TENSION

14" BENCH DRILL PRESS ONLY

1. Disconnect the drill press from the power source.
2. Lift up the belt and pulley guard (A) Fig. 22.
3. Release belt tension by loosening tension lock knob (B) Fig. 22, and moving tension lever (C) forward.
4. Position the belt (D) on the desired steps of the motor and spindle pulleys, as shown in Fig. 22.

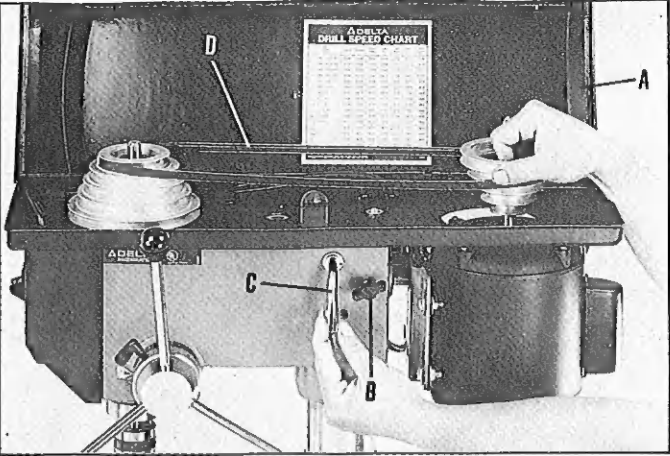


Fig 22

5. After the belt is positioned on the desired steps of the motor and spindle pulleys, move tension lever (C) Fig. 23, to the rear until the belt is properly tensioned and tighten tension lock knob (B). The belt should be just tight enough to prevent slipping. Excessive tension will reduce the life of the belt, pulleys and bearings. Correct tension is obtained when the belt (D) can be flexed about 1" out of line midway between the pulleys using light finger pressure.

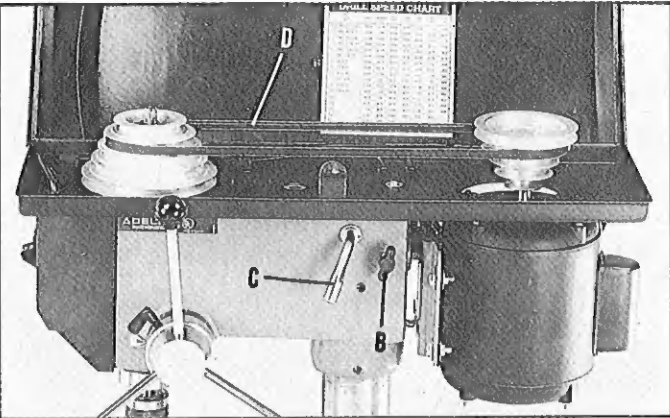


Fig 23

16½" DRILL PRESS ONLY

1. Disconnect the drill press from the power source.
2. Lift up the belt and pulley guard (A) Fig. 24.
3. Release belt tension by loosening tension lock knob (B) Fig. 24, and moving tension lever (C) forward.
4. Position the two belts (D) on the desired steps of the motor, center and spindle pulleys, as shown in Fig. 24.

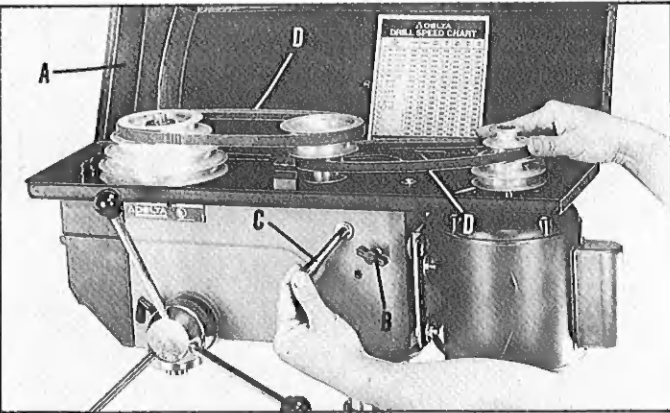


Fig 24

5. After the belt is positioned on the desired steps of the motor, center and spindle pulleys, move tension lever (C) Fig. 25, to the rear until the belts are properly tensioned and tighten tension lock knob (B). The belts should be just tight enough to prevent slipping. Excessive tension will reduce the life of the belt, pulleys and bearings. Correct tension is obtained when the belts (D) can be flexed about 1" out of line midway between the pulleys using light finger pressure.

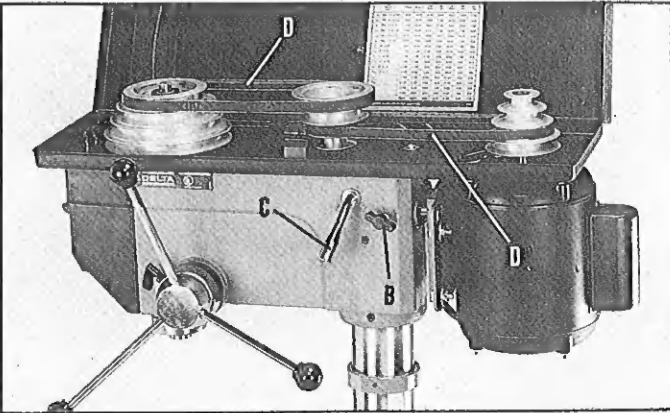


Fig 25

SWITCH

The switch (A) Fig. 26, is located on the front of the drill press head. To turn the drill press "ON" move the switch to the up position. To turn the drill press, "OFF" move the switch to the down position.

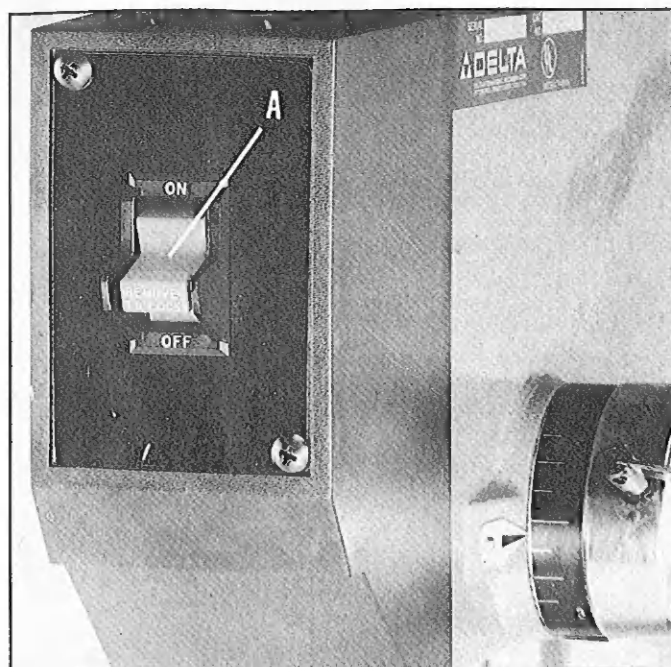


Fig 26

We suggest that when the drill press is not in use, the switch be locked in the "OFF" position. This can be done by grasping the switch toggle (B) and pulling it out of the switch, as shown in Fig. 27. With the switch toggle (B) Fig. 27, removed, the switch will not operate. However, should the switch toggle be removed while the drill press is operating, the switch can be turned "OFF" once, but cannot be restarted without inserting the switch toggle (B) Fig. 27.

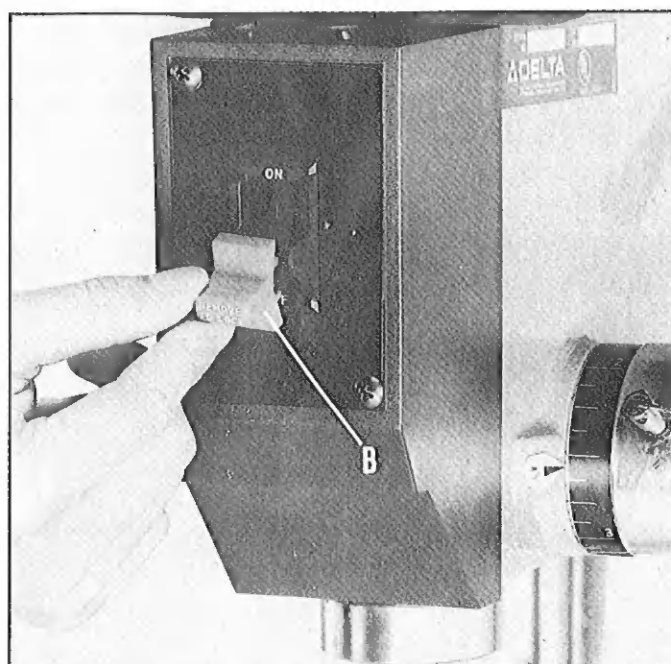


Fig 27

TABLE ADJUSTMENTS

1. The table (G) Fig. 28, can be raised or lowered on the drill press column by loosening the table clamp handle (K) and turning the table raising and lowering handle (J). After the table is at the desired height, tighten handle (K).

2. The table (G) Fig. 28, can be rotated 360 degrees on the table bracket by loosening lock handle (H).

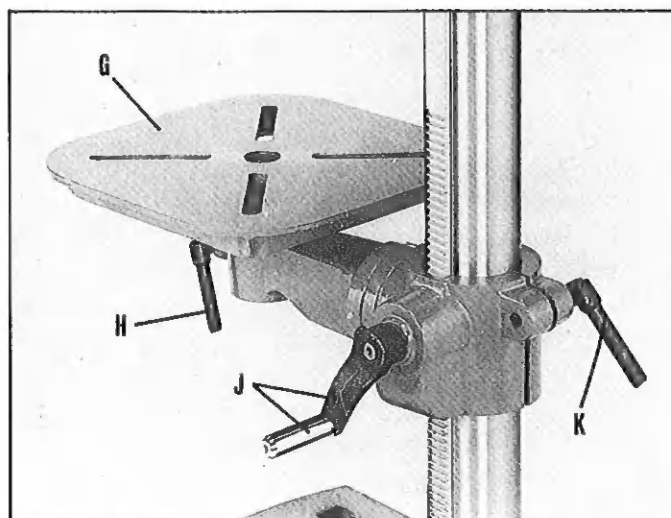


Fig 28

3. The table can be tilted right or left by pulling out and removing table alignment pin (B) Fig. 29. Note: If pin (B) is difficult to remove turn nut (C) clockwise to pull pin out of casting.

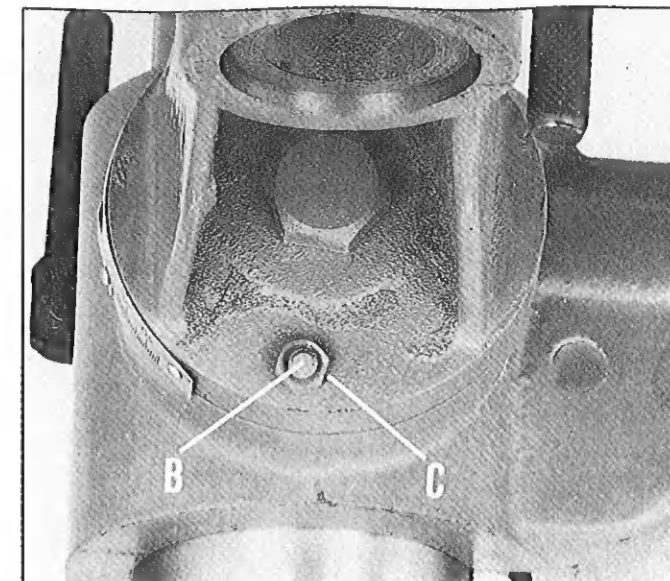


Fig 29

4. Fig. 30, illustrates the table alignment pin (B) removed. Loosen table locking bolt (D) Fig. 30, tilt table to the desired angle and tighten bolt (D). When returning table to the level position, replace table alignment pin (B). This will automatically position the table surface at 90 degrees to the spindle.

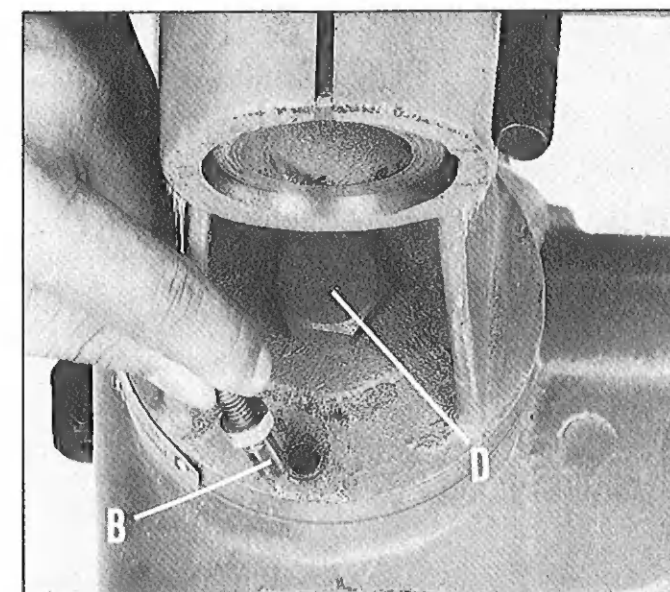


Fig 30

5. A tilt scale (E) and pointer (F) Fig. 31, are provided on the table bracket casting to indicate the degree of tilt.

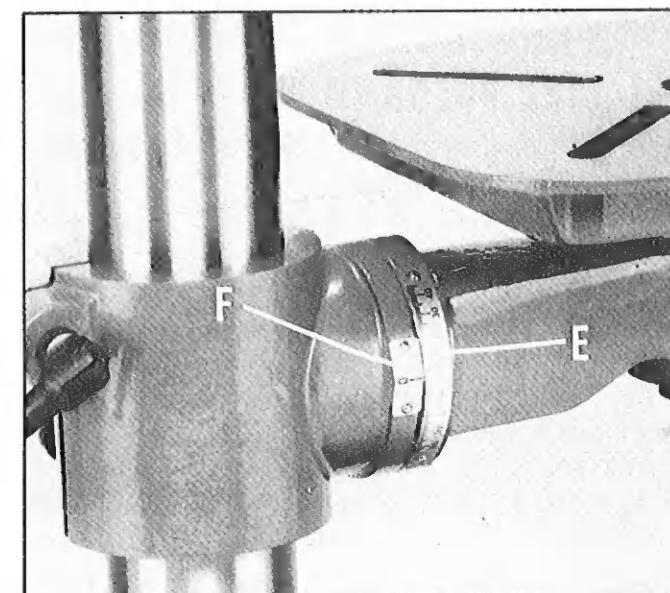


Fig 31

ADJUSTING SPINDLE RETURN SPRING

For the purpose of automatically returning the spindle upward after a hole has been drilled, a spindle return spring is provided in the spring housing (A) Fig. 32. This spring has been properly adjusted at the factory and should not be disturbed unless absolutely necessary. To adjust the return spring, proceed as follows:

1. Disconnect the drill press from the power source.
2. Loosen the two nuts (B) approximately $\frac{1}{4}$ ". Do not remove nuts (B) from shaft (C) Fig. 32.

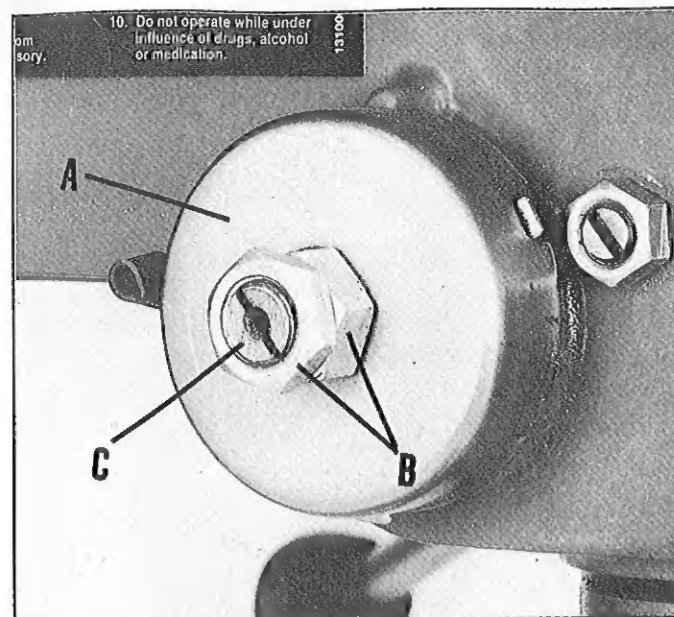


Fig 32

3. While firmly holding spring housing (A) Fig. 33, pull out housing and rotate it until the boss (D) is engaged with the next notch on the housing. Turn the housing counter-clockwise to increase and clockwise to decrease spring tension. Then tighten the two nuts (B) Fig. 33, to hold the housing in place. Important: Nuts (B) Fig. 33, should not contact spring housing (A) when tight.

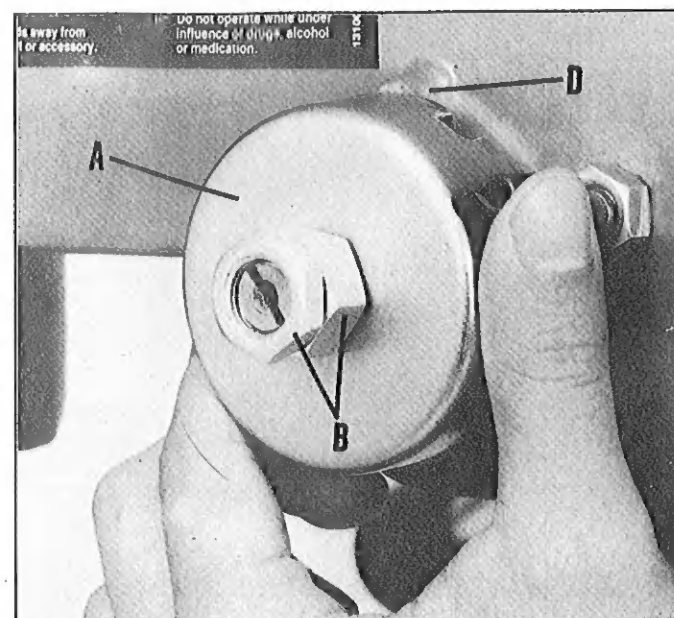


Fig 33

DRILLING HOLES TO DEPTH

Where a number of holes are to be drilled to exactly the same depth, a depth stop is provided in the pinion shaft housing (A) Fig. 34, and is used as follows:

1. Loosen lock handle (B) Fig. 34, and rotate housing (A) until the pointer (C) lines up with the depth you wish to drill on the scale (D). Then tighten lock handle (B).
2. All holes will then be drilled to the exact depth as indicated on the scale (D) Fig. 34.

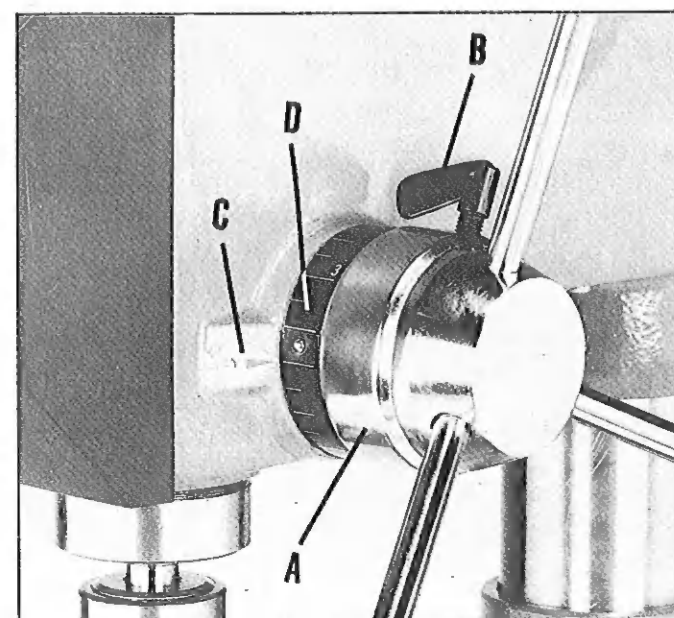


Fig 34

OPERATION

The following directions will give the inexperienced operator a start on the common drill press operations. Use scrap material for practice to get the feel of the machine before attempting regular work.

CORRECT DRILLING SPEEDS

Factors which determine the best speed to use in any drill press operations are: Kind of material being worked, size of hole, type of drill or other cutter, and quality of cut desired. The smaller the drill, the greater the required RPM. In soft materials, the speed should be higher than for hard metals.

BORING IN WOOD

Twist drills, although intended for metal drilling, may also be used for boring holes in wood. However, machine spur bits are generally preferred for working in wood; they cut a square bottom hole and are designed for removal of wood chips. Do not use hand bits which have a screw tip; at drill press speeds they turn into the wood so rapidly as to lift the work off the table and whirl it.

For through boring, line up the table so that the bit will enter the center hole to avoid damage. Scribe a vertical line on the front of the column and a matchmark on the table bracket, so that the table can be clamped in the center position at any height.

Feed slowly when the bit is about to cut through the wood to prevent splintering the bottom face. Use a scrap piece of wood for a base block under the work; this helps to reduce splintering and protects the point of the bit.

DRILLING METAL

Use clamps to hold the work when drilling in metal. The work should never be held in the bare hand; the lips of the drill may seize the work at any time, especially when breaking through the stock. If the piece is whirled out of the operator's hand, he may be injured. In any case, the drill will be broken when the work strikes the column.

The work must be clamped firmly while drilling; any tilting, twisting or shifting results not only in a rough hole, but also increases drill breakage. For flat work, lay the piece on a wooden base and clamp it firmly down against the table to prevent it from turning. If the piece is of irregular shape and cannot be laid flat on the table, it should be securely blocked and clamped.

Authorized Service Stations

A nationwide network of more than 100 authorized Delta Service Stations stand ready to service Delta Machinery should they ever require maintenance and repair. Skilled technicians using the latest approved repair method and genuine Delta parts assure prompt, efficient and economical service.

ALABAMA

Birmingham 35209
Porter-Cable Corporation
131 W. Oxmoor Rd., Suite 105
205-942-6325
Huntsville 35816
Huntsville Equipment Sales
and Rental
4728 University Drive
205-837-9400
Montgomery 36108
Hobbywood, Inc.
430 Airbase Blvd.
205-265-9663
Theodore 36590
Mobile Mechanical Services
P.O. Box 200
5787 I-10 Industrial Parkway
205-653-6948

ALASKA

Anchorage 99503
Alaska Tool & Equip. Service
3207 Arctic Boulevard
907-562-6151
Fairbanks 99706
Fairbanks Aero Services, Inc.
Box 60590
907-479-6666

ARIZONA

Phoenix 85014
Glenn's Tool Service
4036 North 13th Way
602-264-6203
Tucson 85705
Circle Saw Shop & Ind. Tool, Inc.
714 W. Grant Rd.
602-624-5248
Tucson 85719
Electric Motor Company
1028 Broadway
602-622-8877

ARKANSAS

Little Rock 72202
Electric Tool Service
1419 West 10th Street
501-374-8180
CALIFORNIA

Chula Vista 92011
Ori Services Corp.
Suite K, 1031 Bay Blvd.
619-585-9439
City of Industry 91745
Porter-Cable Corporation
1305 John Reed Court
818-333-3566
Eureka 95501
Electric Tool Co.
2810 Park St.
707-442-4267
Fresno 93703
R & R Machinery &
Electric Inc.
1919 E. Home Avenue
209-233-1213
Modesto 95351
Stanislaus Electric Mtr. Wrks.
504 River Road
209-523-8269
North Hollywood 91605
Bucknall Power Tool Service
11910 Vost Street
818-785-0228
Redding 96002
Electric Tool and Motor
915 Wall Street #1
916-222-1131
Sacramento 95814
Construction Industry
Service Company
1211 C Street
916-444-2525
San Diego 92110
Best Impact Service
980 Suite B Buenos Avenue
619-276-3887

San Leandro 94577
Porter-Cable Corporation
3039 Teagarden Street
P.O. Box 1913
415-357-9762
Santa Rosa 95401
Acme Electric Tool Repair
742 Wilson Street
707-546-5862
Santa Rosa 95403
H & V Tool Repair
1808 Empire Industrial Court #D
707-528-1111
Torrence 90502
Universal Tool Service
21804 S. Vermont Avenue
213-328-6472

COLORADO

Denver 80204
Porter-Cable Corporation
2561 West 8th Ave.
303-892-6113
Colorado Springs 80907
Schlosser Tool and Machinery
3970 Sinton Road
719-636-1311
Grand Junction 81501
Dowdell's Cross Electric
1755 Main Street, Unit B
303-245-3158

CONNECTICUT

Hartford 06106
Utility Electric Service, Inc.
53 Main Street
203-246-7271
Oakville 06779
Watertown Tool Supply
3 Harvard Street
203-274-9673

FLORIDA

Gainesville 32609
Florida Fastener and Tool Co., Inc.
2826 N. Waldo Road
904-377-4587
Hialeah 33014
Porter-Cable Corporation
16373-75 NW 57th Ave.
305-624-2523
Jacksonville 32205
North Florida Machinery
& Tool Repair
230-B Edgewood Ave. South
904-387-4455
Orlando 32803
Porter-Cable Corporation
1807 1/2 Winter Park Road
407-644-8100
Pensacola 32581
Electric Motor Service, Inc.
3810 Hopkins Street
904-433-5492
Riviera Beach 33404
Tool Depot
3705 E. Industrial Way
407-848-4320
Tampa 33609
Porter-Cable Corporation
4538 W. Kennedy Blvd.
813-877-9585

GEORGIA

Forest Park 30050
Porter-Cable Corporation
4017 Jonesboro Road
404-363-8000
Savannah 31402
Morgan's
110 Ann Street
912-234-2271
Savannah 31402
White Hardware
102 E. Lathrop Ave.
912-233-5777

HAWAII

Hilo 96720
Hawaii Planing Mill Ltd.
380 Kanoehua Avenue
808-935-0875
Honolulu 96819
A.L. Kilgo Co., Inc.
180 Sand Island Road
808-832-2200
Honolulu 96819
Slim's Power Tools, Inc.
1626 Republican Street
808-841-0902
Honolulu 96817
John Grinnon Co., Inc.
345 N. Nimitz Hwy.
808-538-7333
Kahului 96732
Maui Power Tool Service
251-H2 Lalo Street
808-877-3440

IDAHO

Boise 83705
Air Equipment Company
2350 South Orchard Street
208-342-2464
Boise 83706
K. C. Supply Co.
5103 Irving Street
208-375-1313
Idaho Falls 83403
Rossiter Electric Motor
1501 South Capital Avenue
208-529-3665
Twin Falls 83301
Ellis Repair
2380 Kimberly Road
208-734-4400

ILLINOIS

Addison (Chicago) 60101
Porter-Cable Corporation
311 Laura Drive
708-628-6100
Springfield 62702
James Machinery
223 N. MacArthur
217-522-9115

INDIANA

Elkhart 46516
Thunander Corporation
21861 Protecta Dr.
219-295-4131
Evansville 47711
Tri State Repair Service
1327 N. Fares
812-464-9341
607-729-5287
Fort Wayne 46808
Merrick Evans Inc.
2116 W. Coliseum Blvd.
219-482-4822
Goshen 46526
C & L Electric Motor Repair
1405 Chicago Avenue
219-533-2643
Indianapolis 46241
Macco Equip. Co., Inc.
3129 Kentucky Avenue
317-248-1444
Indianapolis 46220
Standiford Associates, Inc.
Suite 6, P.O. Box 20543
5335 N. Tacoma Avenue
317-257-1368

IOWA

Davenport 52803
Industrial Engineering
Equipment Co.
1958 River Street
319-323-9721

Des Moines 50309
Puckett Electric Tools, Inc.
1011 Keo Way
515-244-4189

KANSAS

Wichita 67213
Richmond Electric Co.
911 Maple
316-264-2344

KENTUCKY

Louisville 40219
Ball Bros. Machine &
Tool Repair
8109 Preston Highway
502-969-1626

LOUISIANA

Baton Rouge 70806
Baton Rouge Rental Service
5101 Government Street
504-924-2959
Metairie 70011
R.J. Marchand Contr. Spec., Inc.
P.O. Box 8148
3515 Division Street
504-888-2922
New Orleans 70153-3432
Beerman Precision, Inc.
P.O. Box 53432
4206 Howard Avenue
504-486-9391
Shreveport 71101
McClamroch Machinery
939 Louisiana Avenue
318-222-9249

MAINE

Portland 04104
M and W Tool Service
30 Portland Street
207-772-2057

MARYLAND

Baltimore 21205
Porter-Cable Corporation
4714 Erdman Avenue
301-483-3100
Hyattsville 20781
Porter-Cable Corporation
4811 Kenilworth Avenue
301-779-8080

MASSACHUSETTS

Boston (Allston) 02134
Porter-Cable Corporation
414 Cambridge Street
617-782-1700
Fall River 02721
Burns, Inc.
350 M.S. Bishop Blvd.
617-675-0381
Springfield 01105
Saw Center
472 Main Street
413-734-2045

MICHIGAN

Grand Rapids 49508
Porter-Cable Corporation
3755 G Broadmoor S.E.
Broadmoor Business Center
616-949-9040
Petoskey 49770
Ed's Electric Appliance Service
P.O. Box 505
S.U.S. Hwy. 31
616-347-9599
Southfield (Detroit) 48075
Porter-Cable Corporation
18650 W. Eight Mile Road
313-569-4333

MINNESOTA

Minneapolis 55429
Porter-Cable Corporation
4315 68th Avenue North
612-561-9080

MISSISSIPPI

Jackson 39202
Flannigan Electric Co., Inc.
1820 S. West Street Ext.
601-354-2756

MISSOURI

North Kansas City 64116
Porter-Cable Corporation
1141 Swift Avenue
P.O. Box 12393
816-221-2070
St. Louis 63119
Porter-Cable Corporation
7574 Watson Road
314-968-8950

MONTANA

Billings 59101
Allen's Electric Tool Repair
431 St. John's Avenue
406-248-3865
Black Eagle 59414
Mosch Electric Motors
2513 17th Street North
406-453-2481
Missoula 59806
City Electric
Electro Service Center Div.
1919 Harve
406-549-4115
Missoula 59801
Montana Tool Co.
1908 North Ave. West
406-721-6425

NEBRASKA

Omaha 68127
Kel-Welco Distributing Inc.
9447 J Street
402-592-1250
Omaha 68102
Thacker Electric Co.
2209 Cumming Street
402-341-2264
Omaha 68127
Tool Hospital
4630 So. 85 Street
402-592-5220
Omaha 68102
Tool Warehouse
2215 Cumming Street
402-341-6167

NEVADA

Las Vegas 89109
Tool Service Inc.
3229 Industrial Road
702-734-9161
Reno 89512
Comstock Electric
425 Eureka Avenue
702-323-5982

NEW HAMPSHIRE

Nashua 03061
Hammar Industrial
175 Amherst St.
P.O. Box 1209
603-882-5161

NEW JERSEY

Jersey City 07304
Rudolf Bass Inc.
45 Halladay Street
201-433-3800
Union 07083
Porter-Cable Corporation
945 Ball Avenue
201-964-1730

Authorized Service Stations (continued)

NEW MEXICO

Albuquerque 87123
J-M Tool Repair Co.
320 Florida S.E.
505-255-2304
Albuquerque 87107
Bill's Service Center
2836 Girard N.E.
505-844-7474
Albuquerque 87113
Woodworker's Supply
5604 Alameda
505-821-0500

NEW YORK

Buffalo 14210
SS Electric Repair Shop Inc.
2470 Seneca Street
716-823-1232
Flushing 11365
Porter-Cable Corporation
175-25 Horace Harding Expwy.
718-225-2040
Kingston 12401
Miron Bldg. Products, Inc.
C.P.O. Box 1598
Rt. #9W North
914-336-6000
New York 10013
Rudolf Bass Inc.
175 Lafayette Street
212-226-4000
N. Syracuse 13212
Pratt Power Tool Service
102 Church St.
315-458-8775
Rochester 14608
Jackson Saw & Knife Co.
517 State Street
716-546-7485
Rochester 14609
O.G. Schwarz
430 Atlantic Avenue
419-474-7537
Valley View 44125
Porter-Cable Corporation
Sweet Valley Business Park
Unit #18
216-447-9030
Utica 13502
McQuade and Bannigan
1300 Stark Street
315-724-7119
Vestal 13850
Cascade Electric Inc.
416 Commerce Rd.
607-729-5278

NORTH CAROLINA

Charlotte 28209
Porter-Cable Corporation
4303B South Boulevard
704-525-4410
Greensboro 27415
Bunting Equipment Co.
Division National Service Ind., Inc.
2325 Joe Brown Drive
919-375-7511
Greensboro 27407
Tool & Equipment Service
827 Norwalk St.
919-379-9757
Raleigh 27604
Specialty Tool Service
of Raleigh Inc.
2420 Atlantic Ave.
919-833-5903
Rural Hall 27045
Brannock-Lynch Lumber Company
P.O. Box 869
8200 Depot Street
919-969-9501
Wilmington 28405
D. C. Electric Tool Repair
102 Eastwood Road, Suite D9
919-392-5784
Wilmington 28405
M. F. McLean Enterprises
Rt. 6, Box 97
Old Wrightsville Road
919-343-1775

NORTH DAKOTA

Bismark 58501
Acme Electric Motor, Inc.
1009 Basin Avenue
701-258-1267

Fargo 58103
Acme Electric Motor, Inc.
3401 Interstate Blvd.
701-235-8060
Grand Forks 58201
Acme Electric Motor, Inc.
1705 13th Avenue North
701-746-6481
Minot 58701
Acme Electric Motor, Inc.
525 20th Avenue S.E.
701-839-2263

OHIO

Barberton 44203
Viking Akron Tool & Supply Co.
2915 New Park Drive
1-800-362-0585
216-753-1063
Cincinnati 45215
Pro Tool Service Inc.
1125 Glendale-Milford Road
513-772-1490
Columbus 43214
Porter-Cable Corporation
4560 Indiana Avenue
614-263-0929
Alpha (Dayton) 45301
Authorized Tool Service Co.
676 Orchard Lane
P.O. Box 5
513-429-5593
North Canton 44720
N. Canton Repair Shop
110 6th Street E.
216-499-3529
Toledo 43606
Power Tool Sales & Service
2934 Douglas Road
419-473-0962
Toledo 43613
Electric Tool & Equipment
3156 Upton Avenue
419-474-7537
Valley View 44125
Porter-Cable Corporation
Sweet Valley Business Park
Unit #18
216-447-9030
West Milton 45383
Conken Equipment Co.
4950 Frederick Garland Road
513-698-3363
Youngstown 44512
Moff Master Power Tools
5228 Market Street
216-783-2130

SOUTH DAKOTA

Sioux Falls 57106
Stan Houston Equip. Co.
501 S. Marmon Road
605-336-3727
Chattanooga 37412
F & D Tool Service and Supply
4121 Ringgold Road
615-698-6454
Clarksville 37042
Opa's Shop
312 Pine Mountain Road
615-647-5842
Moff Master Power Tools
5228 Market Street
216-783-2130

OKLAHOMA

Oklahoma City 73126
Whitton Supply Co.
1419 W. Reno
405-236-5561
Tulsa 74101
Wesche Company
P.O. Box 217
2005 East 7th Place
918-583-7551

OREGON

Eugene 97402
Jim's Tool Service
515 Wilson Street
515-344-1513
Medford 97501
Precision Power Tool
Repair Inc.
2919 N. Pacific Highway
503-770-5541
Portland 97212
Continental Machine & Tool Inc.
51 N.E. Hancock
503-288-6888

PENNSYLVANIA

Allentown 18103
Curio Electric Repair
825 South 5th
215-432-9923
Harrisburg 17105
Stationary Equipment Sales
& Service
Rear 3605 Ridgeway Rd.
717-545-8043

Kingston 18704
Total Services & Systems, Inc.
166 W. Union Street
717-287-2121
Monroeville 15146
Professional Tool Service
700 Seco Road
Monroeville Industrial Park
412-373-7440
Philadelphia 19154
Porter Cable Corporation
12285 McNulty Road
215-677-7800
Fax No.: 215-677-9908
Stargton 18080
Downard's Electric
4711 Main Street
215-767-8148

RHODE ISLAND

Providence 02914
Porter-Cable Corporation
1009 Waterman Avenue
401-434-3620
San Antonio 78205
Electric Motor Service
1514 E. Commerce
512-226-3462
Sherman 75090
Texoma Tool Repair Co.
309 E. Houston Street
214-892-1510
Texarkana 75501
Ray's Electric Motor Repair
922 Bowie Street
214-792-7031
Tyler 75702
Mason Machinery
1908 W. Erwin Street
214-592-6581
Weslaco 78596
Weslaco Tool Co.
316 E. 4th Street
512-968-9156

SOUTH DAKOTA

Sioux Falls 57106
Stan Houston Equip. Co.
501 S. Marmon Road
605-336-3727
Chattanooga 37412
F & D Tool Service and Supply
4121 Ringgold Road
615-698-6454
Clarksville 37042
Opa's Shop
312 Pine Mountain Road
615-647-5842
Moff Master Power Tools
5228 Market Street
216-783-2130

TENNESSEE

Chattanooga 37412
F & D Tool Service and Supply
4121 Ringgold Road
615-698-6454
Clarksville 37042
Opa's Shop
312 Pine Mountain Road
615-647-5842
Moff Master Power Tools
5228 Market Street
216-783-2130

TEXAS

Abilene 79604
Abilene Lumber Co., Inc.
2025 Industrial Blvd.
915-698-4465
Amarillo 79105
G.E. Jones Electric Co.
204 North Polk St.
806-372-5505
Austin 78722
Hamilton Electric Works Inc.
3800 Airport Blvd.
512-472-2428
Austin 78758
The Tool Box
9904C Gray Boulevard
512-836-5483
Corpus Christi 78405
Corpus Christi Power Tool
Repair
3009 Agnes
512-883-1117
Corpus Christi 78405
Otto Dukes Machinery Co.
2588 Morgan Street
512-883-0921

Dallas 75220
Porter-Cable Corporation
10714 N. Stemmons Freeway
214-353-2996
El Paso 79905
C. L. North Co.
123 Chelsea Street
915-772-1469
Ft. Worth 76110
Air & Electric Tool Co., Inc.
3301 South Grove
817-921-0231
Houston 77092
Porter-Cable Corporation
5201 Mitchelldale, Suite B-9
713-682-0334
Longview 75601
Eastex Welding
Box 3223, 1232 W. Marshall
214-758-7327
Lubbock 79405
Lubbock Electric Co.
1108 34th Street
806-744-2336
San Antonio 78205
Electric Motor Service
1514 E. Commerce
512-226-3462
Sherman 75090
Texoma Tool Repair Co.
309 E. Houston Street
214-892-1510
Texarkana 75501
Ray's Electric Motor Repair
922 Bowie Street
214-792-7031
Tyler 75702
Mason Machinery
1908 W. Erwin Street
214-592-6581
Weslaco 78596
Weslaco Tool Co.
316 E. 4th Street
512-968-9156

San Antonio 78205
Electric Motor Service
1514 E. Commerce
512-226-3462
Sherman 75090
Texoma Tool Repair Co.
309 E. Houston Street
214-892-1510
Texarkana 75501
Ray's Electric Motor Repair
922 Bowie Street
214-792-7031
Tyler 75702
Mason Machinery
1908 W. Erwin Street
214-592-6581
Weslaco 78596
Weslaco Tool Co.
316 E. 4th Street
512-968-9156

UTAH

Salt Lake City 84115
Porter-Cable Corporation
2990 S.W. Temple
801-487-4953

VERMONT

S. Burlington 05403
Burlington Tool Repair
23 San Remo Drive
802-658-4131

VIRGINIA

Charlottesville 22901
Allen Desper Repair Service
P.O. Box 1612
1132 E. Market Street
804-293-7913
Norfolk 23517
Bryan Electric Co., Inc.
424 West 25th Street
804-625-0378
Richmond 23230
Porter-Cable Corporation
1705 Dabney Road
804-257-7348
Roanoke 24013
Roanoke Armature Co.
1108 1/2 Street S.E.
703-345-8741

WASHINGTON

Kennewick 99336
Tool Repair Company
419A West Enlat
509-586-6145
Renton 98055
Porter-Cable Corporation
268 Southwest 43rd Street
206-251-6680
Spokane 99202
Spokane Power Tool
E. 801 Trent Avenue
509-489-4202
Yakima 98902
Cooper Electric Motor Service
205 S. 4th Avenue
509-452-9550

WEST VIRGINIA

Huntington 25701
Lawter Electric Motor Co.
202 Adams Avenue
304-522-8297
Wheeling 26003
Kennedy Hardware
3300 McCulloch Street
304-233-3600

WISCONSIN

Green Bay 54301
Power Tool Service Co.
310 N. Webster Ave.
P.O. Box 1343
414-437-2594
Janesville 53547
Blain Supply, Inc.
P.O. Box 391
3507 East Racine
607-754-2821
LaCrosse 54603
A-Line Machine Tool Co.
800 Monitor St.
608-785-1515
Madison 53713
Electric Motors Unlimited
1000 Jonathan Drive
608-271-2311
Milwaukee 53222
Porter-Cable Corporation
10700 W. Burleigh Street
414-774-3650
Wausau 54401
R.A. Miller Supply
1109 McCleary Street
715-842-9189

PUERTO RICO

Sierra Bayamon 00619
B & M Electric Tool
Repair Center
Calle 49, Bloque 51
Casa 27 Avenue West Main
809-



PARTS, SERVICE OR WARRANTY ASSISTANCE

All Delta Machines and accessories are manufactured to high quality standards and are serviced by a network of factory service centers and authorized service stations listed in your owner's manual. To obtain additional

information regarding your Delta quality product or to obtain parts, service or warranty assistance, please call Delta's toll-free 'hotline' telephone number.

Delta maintains a modern, efficient Parts Distribution Center, maintaining an inventory of over 10,000 parts located in Memphis, Tennessee.

Highly qualified and experienced Customer Service Representatives are standing by to assist you on weekdays from 8:00 A.M. to 5:00 P.M. Memphis time.



Memphis, TN 38118
4290 Raines Road
Phone: (901) 363-8800

HOTLINE
800-223-PART



Delta Building Trades and Home Shop Machinery Two Year Limited Warranty

Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

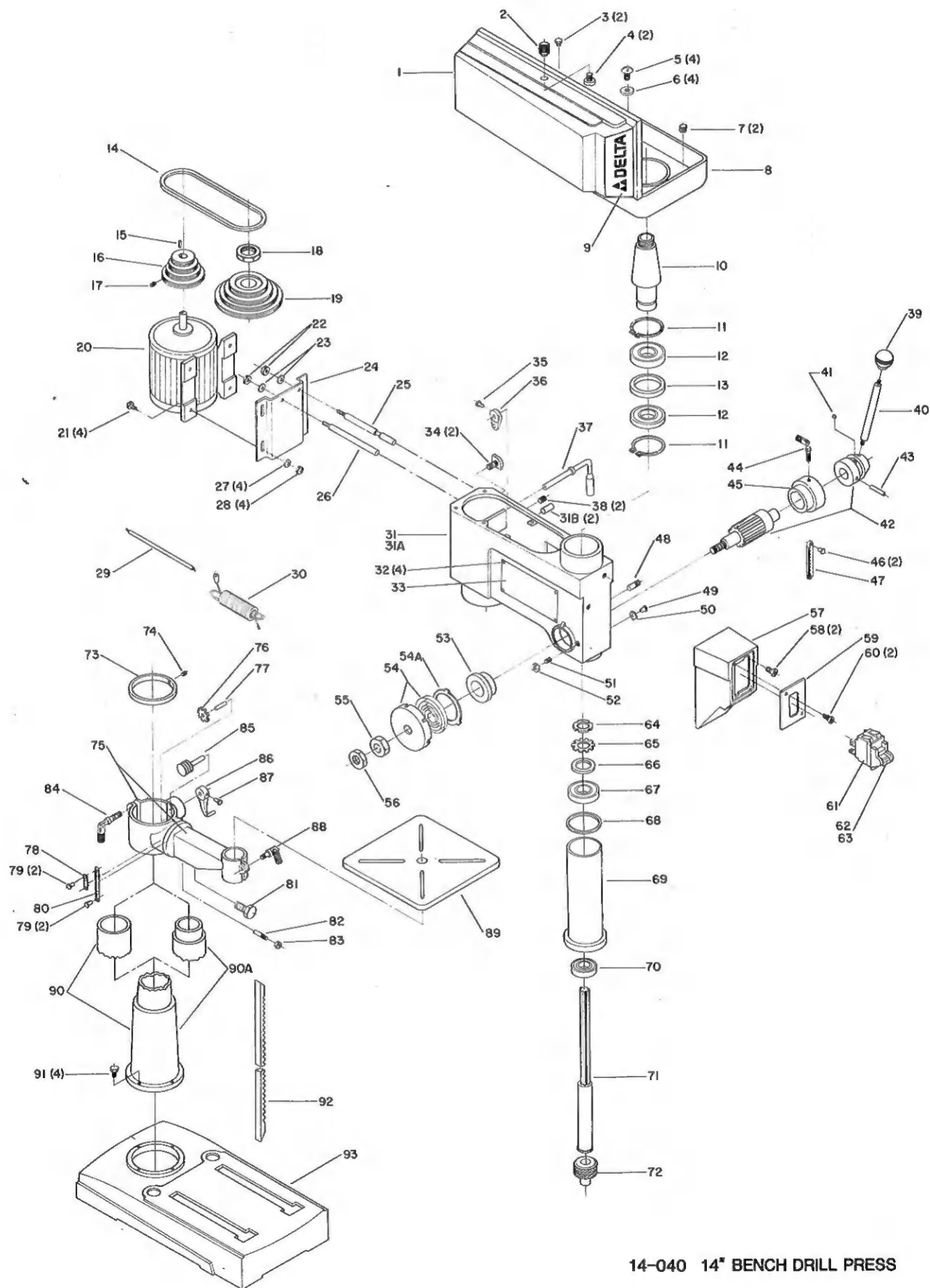


14-040 14" BENCH DRILL PRESS 17-900 16 1/2" DRILL PRESS

DP-4D

Part No. 1312041

Revised 11-20-89



14-040 14" BENCH DRILL PRESS

REPLACEMENT PARTS

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	1311076	Upper Pulley Cover (See Service Note A)	55	902-01-010-1208	1/2-20 Hex Nut
2	1311065	Knob	56	1313047	1/2-20 x 6mm Hex Nut
3	1311057	Strain Relief	57	1311075	Switch Box
4	1246045	(DIN 84) M6 x 10mm Slot Cheese Hd Mach Screw	58	1246001	(DIN 84) M5 x 12mm Slot Cheese Hd Mach Screw
5	1246002	(DIN 84) M6 x 12mm Slot Cheese Hd Mach Screw	59	1311084	Switch Cover
6	1311062	Washer	60	1310547	M4 x 12mm Self Tap Screw (Current Models Only)
7	1311056	Rubber Ring	60	1310070	M5 x 15mm Self Tap Screw (Early Models Only)
8	1311085	Lower Pulley w/Hinges (See Service Note A)	61	438-01-017-0140	Power Switch, Incl:
9	1311086	Nameplate	62	400-06-068-0001	Switch Key (See Service Note B)
10	1311057	Spindle Sleeve	63	400-06-068-0002	Switch Key (See Service Note B)
11	1311060	Retaining Ring	64	1311056	Special Lock Nut
12	920-04-020-5348	Bearing	65	1311055	Locking Ring
13	1311059	Spacer	66	1311054	Washer
14	1311081	V-Belt	67	920-04-020-5335	Bearing
15	1311071	Key	68	1311051	Rubber Washer
16	1311070	Motor Pulley	69	1311050	Quill
17	1246133	(DIN 913) M8 x 8mm Hex Soc Set Screw	70	920-04-020-5335	Bearing
18	1311061	Special Pulley Nut	71	1311052	Spindle
19	1311062	Spindle Pulley	72	1310049	1/2" Chuck, Incl:
20	1311066	Motor	**	1313104	Chuck Key
21	1246034	(DIN 933) M8 x 20mm Hex Hd Cap Screw	73	1311021	Rack Mounting Ring
22	1243476	(DIN 934) M12 Hex Nut	74	1311022	(DIN 916) M6 x 10mm Hex Soc Set Screw
23	904-02-020-1705	1/2" Lockwasher	75	1310080	Table Bracket Assy., Incl:
24	1311029	Motor Mount Bracket	76	1311007	Pinion Gear
25	1311027	Slide Rod	77	1311008	Shaft
26	1311062	Slide Rod	78	1311016	Zero (0) Indicator
27	1311069	Washer	79	1310016	Rivet
28	1243398	(DIN 934) M8 Hex Nut	80	1311015	Angle Scale
29	1311067	Motor Power Cable	81	1311012	5/8-11 x 1 1/4" Hex Hd Bolt
30	1311072	Power Cord	82	1310013	Threaded Pin
31	1311090	Head Body (Current Models Only, See Service Note C)	83	902-01-120-1034	1/4-20 Hex Nut
31A	1311023	Head Body (Early Models Only, See Service Note C)	84	1311017	Column Lock Handle
31B	1246110	(DIN 1481) M6 x 24mm Roll Pin (Current Models Only, See Service Note C)	85	1311009	Worm Gear
32	1310016	Rivet	86	1311010	Handle
33	1310068	Warning Label	87	1246014	(DIN 933) M6 x 12mm Hex Hd Cap Screw
34	1311028	Shifter Lock Screw	88	1311018	Table Lock Handle
35	1246139	(DIN 933) M8 x 18mm Hex Hd Cap Screw	89	1311019	Table
36	1311026	Shifter Eccentric	90	1310586	Column Assembly (Current Models Only, See Service Note C)
37	1311025	Shifter Handle	90A	1310086	Column Assembly (Early Models Only, See Service Note C)
38	1311003	(DIN 916) M10 x 12mm Hex Hd Cap Screw	91	1246019	(DIN 933) M10 x 1.5 x 35mm Hex Hd Screw (Current Models Only)
39	1311039	Grip	91	901-01-060-0617	3/8-16 x 1 1/2" Hex Hd Screw (Early Models Only)
40	1311038	Handle Bar	92	1311020	Rack
41	1311036	Key	93	1311001	Base
42	1310085	Pinion Assembly, Incl:	**	1311073	Cable Connector
43	1311034	Pin	**	1311024	Insulated Female Connector
44	1311037	Depth Lock	**	428-06-101-0002	3mm Allen Wrench
45	1311040	Depth Stop Ring	**	432-07-101-0004	5mm Allen Wrench
46	1310016	Rivet	**	1311088	Speed Chart
47	1311041	Depth Scale	**	1310077	Pulley Chart
48	1311035	Stop Pin			
49	1310016	Rivet			
50	1311042	Scale Pointer			
51	1311048	M10 x 1.5 x 27mm Hd'less Set Screw			
52	1243496	(DIN 934) M10 Hex Nut			
53	1311045	Spring Seat			
54	1310082	Spring Assembly			
54A	1311046	Spring Retainer			

SERVICE NOTES:

A - Hardware required to assemble upper and lower pulley covers:

QUANTITY	PART NO.	DESCRIPTION
4	1243501	(DIN 84) M4 x 10mm Slot Cheese Hd Mach Screw
4	904-02-010-1701	#8 Lockwasher
4	1243569	(DIN 934) M4 Hex Nut

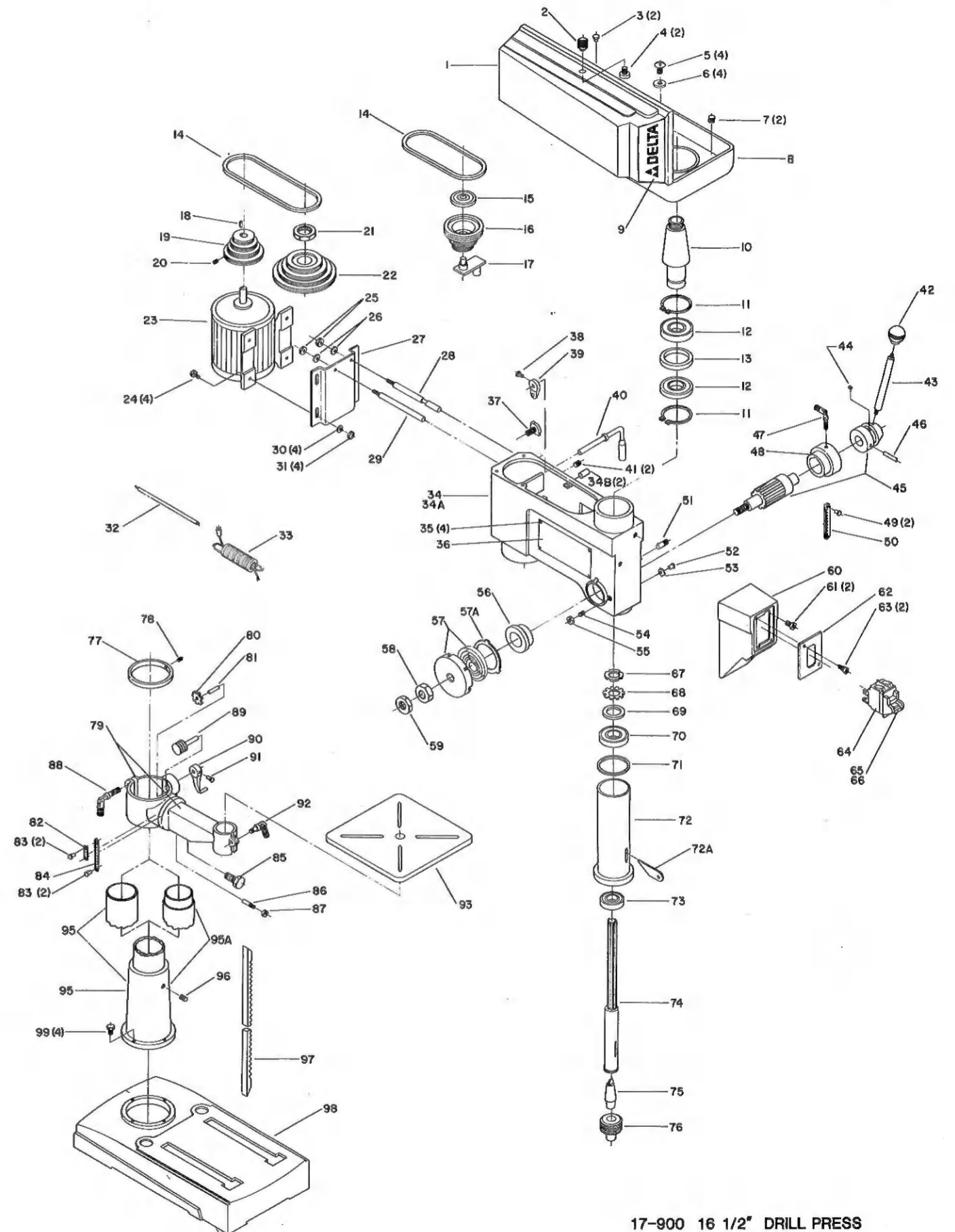
B - Switch Key 400-06-068-0001 has 8-teeth.

Switch Key 400-06-068-0002 has 2-teeth.

C - Early model heads were bored to accept 71mm column (Ref No. 90A). Current style heads are bored to accept 73mm columns (Ref No. 90). Early columns (Ref No. 90A) are stepped at the top, current columns (Ref No 90) are straight at the top. Early and current model components are not interchangeable.

This parts list is provided to aid in obtaining service parts. Operational and maintenance information is contained in a separate owner's manual which is available through your local service outlet.

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REPLACEMENT PARTS

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	1311076	Upper Pulley Cover (See Service Note D)	56	1311045	Spring Seat
2	1310065	Knob	57	1310082	Spring Assembly
3	1310057	Strain Relief	57A	1311046	Spring Retainer
4	1246045	(DIN 84) M6 x 10mm Slot Cheese Hd Mach Screw	58	902-01-010-1208	1/2-20 Hex Nut
5	1246002	(DIN 84) M6 x 12mm Slot Cheese Hd Mach Screw	59	1313047	1/2-20 x 6mm Hex Nut
6	1310062	Washer	60	1312025	Switch Box
7	1310056	Rubber Ring	61	1310016	Rivet
8	1312032	Lower Pulley Cover w/Hinges (See Service Note D)	62	1311084	Switch Cover
9	1311086	Nameplate	63	1310547	M4 x 12mm Self Tap Screw (Current Models Only)
10	1312016	Spindle Sleeve	63	1310070	M5 x 15mm Self Tap Screw (Early Models Only)
11	1312019	Retaining Ring	64	438-01-017-0140	Power Switch, Incl:
12	1312017	Bearing	65	400-06-068-0001	Switch Key (See Service Note E)
13	1312018	Spacer	66	400-06-068-0002	Switch Key (See Service Note E)
14	1312030	V-Belt	67	1311056	Special Lock Nut
15	1312028	Bearing	68	1311055	Locking Ring
16	1312027	Center Pulley	69	1311054	Washer
17	1312029	Pulley Shaft	70	920-04-020-5335	Bearing
18	1311071	Key	71	1312014	Rubber Washer
19	1312024	Motor Pulley	72	1312013	Quill
20	1246133	(DIN 913) M8 x 8mm Hex Soc Set Screw	72A	1311065	Drill Shifter
21	1311061	Special Pulley Nut	73	1312053	Bearing
22	1312020	Spindle Pulley	74	1312015	Spindle
23	1312023	Motor	75	1312021	Arbor
24	1246034	(DIN 933) M8 x 20mm Hex Hd Cap Screw	76	1312022	5/8" Chuck, Incl:
25	1243476	(DIN 934) M12 Hex Nut	**	1313105	Chuck Key
26	904-02-020-1705	1/2" Lockwasher	77	1312009	Rack Mounting Ring
27	1311029	Motor Mount Bracket	78	1311022	(DIN 916) M6 x 10mm Hex Soc Set Screw
28	1312012	Slide Rod	79	1310079	Table Bracket Assy., Incl:
29	1312031	Slide Rod	80	1311007	Pinion Gear
30	1311069	Washer	81	1311008	Shaft
31	1243398	(DIN 934) M8 Hex Nut	82	1311016	Zero (0) Indicator
32	1311067	Motor Power Cable	83	1310016	Rivet
33	1311072	Power Cord	84	1311015	Angle Scale
34	1312090	Head Body (Current Models Only, See Service Note F)	85	1311012	5/8-11 x 1 1/4" Hex Hd Bolt
34A	1312010	Head Body (Early Models Only, See Service Note F)	86	1313013	Threaded Pin
34B	1246110	(DIN 1481) M6 x 24mm Roll Pin (Current Models Only, See Service Note F)	87	902-01-120-1034	1/4-20 Hex Nut
35	1310016	Rivet	88	1311017	Column Lock Handle
36	1310068	Warning Label	89	1311009	Worm Gear
37	1311028	Shifter Lock Screw	90	1311010	Handle
38	1246139	(DIN 933) M8 x 18mm Hex Hd Cap Screw	91	1246014	(DIN 933) M6 x 12mm Hex Hd Cap Screw
39	1311026	Shifter Eccentric	92	1311018	Table Lock Handle
40	1312011	Shifter Handle	93	1312007	Table
41	1311003	(DIN 916) M10 x 12mm Hex Soc Set Screw	95	1310595	Column Assy., Incl: (Current Models Only, See Service Note F)
42	1311039	Grip	95A	1310095	Column Assembly, Incl: (Early Models Only, See Service Note F)
43	1311038	Handle Bar	96	1311003	(DIN 913) M10 x 12mm Hd'less Set Screw
44	1311036	Key	97	1312008	Rack
45	1310085	Pinion Assy., Incl:	98	1312001	Base
46	1311034	Pin	99	1246029	(DIN 933) M10 x 1.5 x 40mm Hex Hd Screw (Current Models Only)
47	1311037	Depth Lock	99	901-01-060-0615	7/16-14 x 1 3/4" Hex Hd Cap Screw (Early Models Only)
48	1311040	Depth Stop Ring	**	1311073	Cable Connector
49	1310016	Rivet	**	1311024	Insulated Female Connector
50	1312033	Depth Scale	**	428-06-101-0002	3mm Allen Wrench
51	1311035	Stop Pin	**	432-07-101-0004	5mm Allen Wrench
52	1310016	Rivet	**	1310088	Speed Chart w/Speed Steps
53	1311042	Scale Pointer			
54	1311048	M10 x 1.5 x 27mm Hd'less Set Screw			
55	1243496	(DIN 934) M10 Hex Nut			

* NOT SHOWN ASSEMBLED
** NOT SHOWN

SERVICE NOTES:

D - Hardware required to assemble upper and lower pulley covers:

QUANTITY	PART NO.	DESCRIPTION
4	1243501	(DIN 84) M6 x 10mm Slot Cheese Hd Mach Screw
4	904-02-010-1701	#8 Lockwasher
4	1243569	(DIN 934) M6 Hex Nut

E - Switch Key 400-06-068-0001 has 3 teeth:

Switch Key 400-06-068-0002 has 2 teeth:

F - Early model heads were bored to accept 78mm column (Ref No. 95A). Current style heads are bored to accept 80mm columns (Ref No. 95). (Early columns (Ref No. 95A) are stepped at the top, current columns (Ref. No. 95) are straight at the top. Early and current model components are not interchangeable.

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